

CONDITION ASSESSMENT INFORMATION SYSTEM (CAIS) WORKSHOP

APRIL 2006



Presented by:
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DEFERRED MAINTENANCE (DM) PROGRAM

- ❑ **DM PROGRAM OFFICE ESTABLISHED UNDER THE READINESS in TECHNICAL BASE and FACILITIES DIRECTORATE**
 - Responsible for planning, management, and reporting of DM.

- ❑ **DM PROGRAM METHODOLOGY CHANGE**
 - Analysis of CAIS database, randomly selected building walk downs, and current inspection practices identified an overstatement of approximately \$22M in reported DM.
 - Beginning in FY06, Inspection Units (IU's) with a condition rating of "Good" or "Excellent" will not be flagged as deferred. All other condition rating's will be considered deferred if the service life is past or the physical condition warrants a deferred rating.



DEFERRED MAINTENANCE (DM) PROGRAM

□ DM PROGRAM METHODOLOGY CHANGE (Cont'd)

- The change in methodology is a concerted effort to more accurately reflect the condition of the Pantex Plant.
- Allows Program to clearly focus funding on DM associated with plant priorities.
- PXSO concurrence with implemented changes.

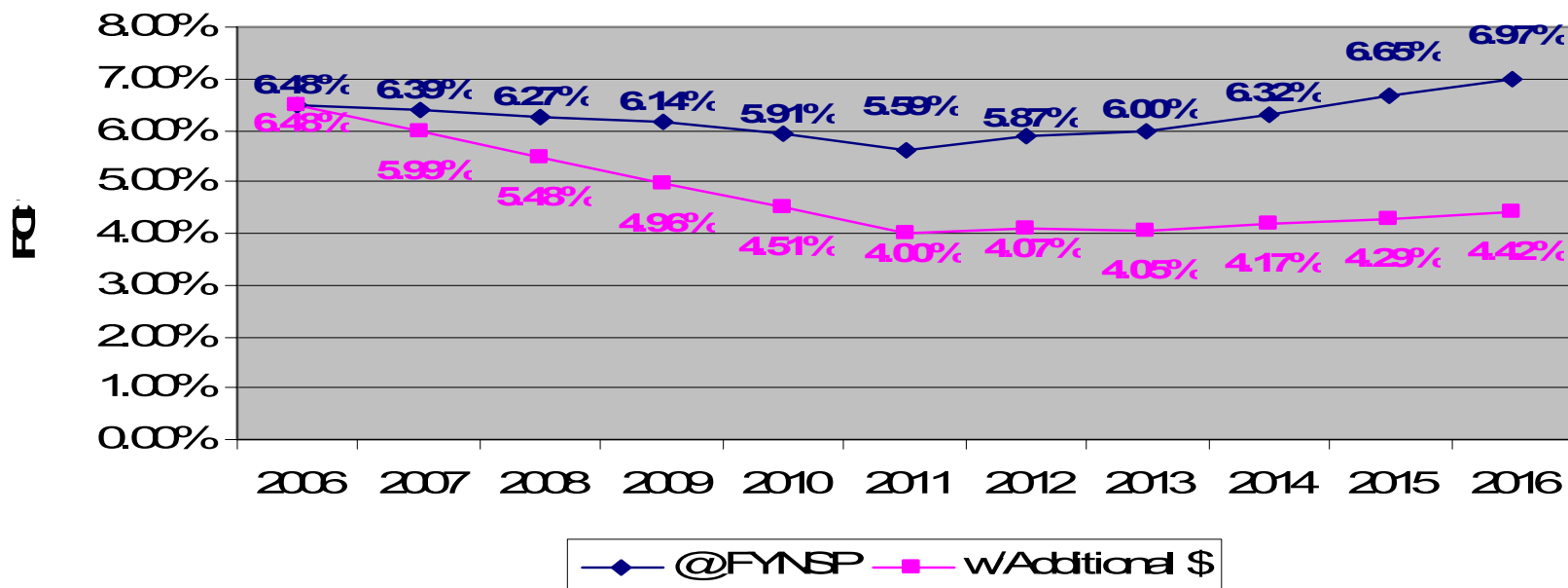


DEFERRED MAINTENANCE (DM) PROGRAM

□ NNSA CORPORATE GOAL STATUS

- Pantex continues to make progress toward NNSA's ME Facility Condition Index (FCI) goal of 5% or better by FY2009.

**Projected Facility Condition Index - Mission Essential
w/Additional Required Maintenance (\$13.5M)**



NNSA RTBF MISSION DEPENDENCY RECAST OF FACILITIES AND INFRASTRUCTURE

□ BUILDING CATEGORIZATION

- Definitions of Mission Critical (MC), Mission Dependent Not Critical (MDNC), Mission Dependent (MD) (See handout).
- Changes will affect CAIS and FIMS
 - Sites will categorize their facilities and infrastructure based on mission assignment in accordance with definitions.
 - Both systems will be updated to reflect revised mission dependency assignment.
- Recast Schedule
 - MC - August 2006
 - MDNC/NMD – August 2007



CONDITION ASSESSMENT SURVEY(CAS) PROGRAM

□ CAS INSPECTION STATUS:

- **On track to complete first three-year rotating inspection cycle by September 30, 2006.**
- **634 – Current number of buildings on the three-year rotating inspection schedule.**
 - 2,908,977 – Total number of square feet.
 - *88 – Number of buildings remaining to be inspected by the end of September.
- **39 – Current number of OSF inspection units.**
 - *10 – Number of OSF's remaining to be inspected by the end of September.

*As of 04/03/06



CAS Inspectors lead the way by providing quality inspection data



Calvin Jones – Mech.

Rudy Rangel – Elec.

Danny Beagles – Struc.



Historical Maintenance Data Retrieved From PassPort.

Welcome to BI Query

Maintenance Model

REPORT WINDOWS

Applied
Technology

Fire Systems

Tooling

Backlog

Preventive
Maintenance

Utilities

Documents

VMF

CAS

Projects &
RCM

Work Control

Equipment/
Systems

Shop

Materials

*To build new query,
click "Build Query"*

Build Query

GENERAL INSTRUCTIONS

Navigate to Report Window

- Select report type from list on left.
- Click button to navigate to report choice (e.g., Backlog).

Instructions to Run Report

- Choose desired report and click button.
- Enter prompt information, when required.

What can I do then?

- Print report as is.
- Do a "Save As" to your N drive.
- Once saved to N, make changes to meet your needs.
- Run custom report from N for future use.

Need help or have comments? Call or e-mail:
Virginia Brantley (x3532) or Kittie Harris (x3249)



The Button
Box

Welcome

Build Query

Birth certificate information. Prompt for any building and/or system. Leave system blank to run for all systems in a building.

Facility & Equipment List

A1. Electrical

A2. Mechanical

A3. Structural

A4. Equipment Tag

A5. Systems/EQ Data

A6. Equip Tag History

A7. Electrical for Review
WOs with Comments

A8. Mechanical for Review
WOs with Comments

A9. Structural for Review
WOs with Comments

Miscellaneous Reports

B1. Backlog by Unit

B2. Deferred Maintenance

B3. Def Mntc 3170 Comments

B4. WOs with Tasks >= 60 Days in
Finished Status for review

B5. WOs with Tasks >= 180 Days in
Finished Status

B7. WO Tasks "Finished" >= 180
(Sub-Query for Metric)

B8. Deferred Maintenance Report
w/Prompts - Export to Excel

B6. Summary
Report

Your query/report isn't working as
expected? Call Kittie Harris at x3249

Prior to a facility being inspected, the CAS inspectors pull a two-year history of completed corrective and mod and betterment work orders.



The
Maintenance
Division would
like to
welcome you
to the CAIS
informational
database!

CAIS Data Main Menu

RTBF Program
Reports

Indicators Menu

Validation Menu

Inspection Forms
Menu

Deferred Maint.
Review/Misc Menu

Exit CAIS
Data Main
Menu

**MicroSoft Access plays a key role in our
ability to standardize electronic
communications.**



The CAS
Group
would like to
welcome
you to the
**Electronic
Inspection
Forms
Menu!**

**Exit Inspection
Form Menu**

Electronic Inspection Forms

Electrical

Elec Lighting Inspection Sheet

Elec Lighting Inspection Sheet - Short Version

Elec Panel Inspection Sheet

Elec Transformer-UPS Inspection Sheet

Structural

Structural Exterior Inspection Sheet

Structural Interior Inspection Sheet

Structural Roof Inspection Sheet

Mechanical

Mech Inspection Sheet - Long Version

Mech Inspection Sheet - Short Version

Blank Forms

Blank Elec Lighting Inspection Sheet

Blank Elec Panel Inspection Sheet

Blank Elec Transformer Inspection Sheet

Blank Mech Inspection Sheet

Blank Struc Exterior Inspection Sheet

Blank Struc Interior Inspection Sheet

Blank Struc Roofing Inspection Sheet

Other

OSF Inspection Sheet

OSF Inspection Sheet-Short Version

Inspection Cover Sheet

Point of Contact Notification

Equipment Verification

Packages

Elec Package

Mech Package

Struc Package

Cover sheets with
POC information
are automatically
populated and
printed with each
package.



**Tonya
Hinojosa
ensures all
CAS inspection
data is entered
correctly.**



CAIS DATA ENTRY

**“Quality in means
quality out.”**



OFFICIAL USE ONLY

MECHANICAL EQUIPMENT INSPECTION SHEET

FACILITY #:	11-029	(MECHANICAL WORK BREAKDOWN STRUCTURE) = W				Repair Task = RT
MISSION SUPPORT						1. Replacement 2. Repair/Restore 3. Repaint 4. Clean 5. Review Condition = C 1. Excellent 2. Good 3. Adequate 4. Fair 5. Poor 6. Fail
Fac. Name:	Photography Laboratory					
Fac. sq. ft.:	4,234					
C-Date / Age:	1971 / 35					
Survey Date:						
Last Inspection Performed by:		JONES, CALVIN				Purpose Code = P Urgency to Repair/Replace = U

IU #	Equip No	Stat	Qty	Rm No	Location Description/Rm #	Manuf., Model Number, Unit Size/Capacity, etc.	Deficiency Info					Year Installed	OPT Year	Year Repl	Cost Adders
							W	C	RT	P	U				
48353	6800150	R	1		ROOF, AHU	CARRIER #48DD008, 7 TON, 240,000 BTUH	10	2		4	4	1971	1991		

COMMENTS: Currently Deferred: N RS Means Est Cost: \$16,935
 S/N D-195594, 2 EA. COMPRESSOR 208 V, 3 PH, 20.0 AMP, R-22, 2 EA. CONDENSER FAN 230 V, 1 PH, 27 AMP, AHU MOTOR 2 HP, 208 V, 3 PH, 7.1 AMP
 WBS, Type (as it is in CAIS currently):
 Mech;Cooling;Packaged HVAC
 Self-contained sgl pkg, free blow or duct, not incl rmt cond, 7.5 ton clg

48352	6800152	R	1		ROOF, AHU	CARRIER #48DA012A, 9 TON, 107,000 BTUH	10	4	1	4	3	1971	1991		
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COMMENTS: Currently Deferred: Y RS Means Est Cost: \$21,988
 S/N AD98547, 2 EA. COMPRESSOR MOD RF7025DVU, R-22, 208 V, 3 PH, 25.2 AMP, 2 EA. CONDENSER FAN 230 V, 1 PH, 3.3 AMP, AHU MOTOR 208 V, 3 PH, 5.4 AMP
 WBS, Type (as it is in CAIS currently):
 Mech;Cooling;Packaged HVAC
 Self-contained sgl pkg, free blow or duct, not incl rmt cond, 10 ton clg

48354	6800157	R	1		ROOF, AHU	CARRIER #48DD008, 7 TON, 240,000 BTUH	10	2		4	4	1971	1991		
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COMMENTS: Currently Deferred: N RS Means Est Cost: \$16,935
 S/N D195593
 WBS, Type (as it is in CAIS currently):
 Mech;Cooling;Packaged HVAC
 Self-contained sgl pkg, free blow or duct, not incl rmt cond, 7.5 ton clg

48351	6800919	R	1		ROOF, FOR RR, FAN, EXHAUST	LOREN COOK #7R160, 1/8 HP, 150 CFM	14	2		4	4	1971	1991		
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COMMENTS: Currently Deferred: N RS Means Est Cost: \$1,407
 WBS, Type (as it is in CAIS currently):
 Mech;Heat+Vent;Air Handlers+Fans
 Fan, roof exhauster, centrifugal housing, curb/bird scr/dmpr, 320 CFM

Report used to furnish CAS inspection data to Facility Managers.

BWXT CAS Inspection Data for Facility Managers

ASSET: 11-020

ZONE: ZONE 11

I.U. #	Location Description	CAIS "Type" Description	CAS Inspection Info.	Opt. Year	Cond	Deferred
62976	INTERIOR , COMPRESSOR, AIR	Comp;Air;Recip;TnkMtd;Simplx; 8CFM;2HP	FOR FIRE SYS., OILESS, DEVILBISS, 1HP	2013	GOOD	N

Yr. Installed 1998 Replacement Qty. 1 EACH Imp. Code: ME Inspection Date 11/12/2004 Project/WO #: Eq. # 6806207

Comment:

I.U. #	Location Description	CAIS "Type" Description	CAS Inspection Info.	Opt. Year	Cond	Deferred
70704	EQUIPMT RM, EQ. RM. NORTHEAST	Comp;Refrig;RecipHerm;R22;15-40Ton	REFRIGERATER UNIT 40 TON	2021	EXCL	N

Yr. Installed 2006 Replacement Qty. 1 EACH Imp. Code: ME Inspection Date 11/17/2004 Project/WO #: Eq. # ?

Comment: TRANE CO. M/N RWUBC401RENRE30GMP S/N L87K05157 460 VOLT 3PH COMPRESSER CRHR 400C-3HAT. MOVE TO 11-020 PER L. BACKUS

I.U. #	Location Description	CAIS "Type" Description	CAS Inspection Info.	Opt. Year	Cond	Deferred
70163	EQUIPMT RM, EQ. RM. NORTHEAST	Comp;Refrig;RecipHerm;R22;15-40Ton	REFRIGERATER UNIT 40 TON	2030	EXCL	N

Yr. Installed 2005 Replacement Qty. 1 EACH Imp. Code: ME Inspection Date 11/17/2004 Project/WO #: Eq. # ?

Comment: TRANE CO. M/N RWUBC401RENRE30GMP S/N L87K05157 460 VOLT 3PH COMPRESSER CRHR 400C-3HAT. MOVE TO 11-020 PER L. BACKUS.
REPLACED IN 2005

I.U. #	Location Description	CAIS "Type" Description	CAS Inspection Info.	Opt. Year	Cond	Deferred
60565	INTERIOR , BAY 1	Composition flr, epoxy, with colored quartz chips, broadcast, minimum		1999	POOR	Y

Yr. Installed 1942 Replacement Qty. 646 SQFT Imp. Code: ME Inspection Date 10/12/2004 Project/WO #: Eq. #

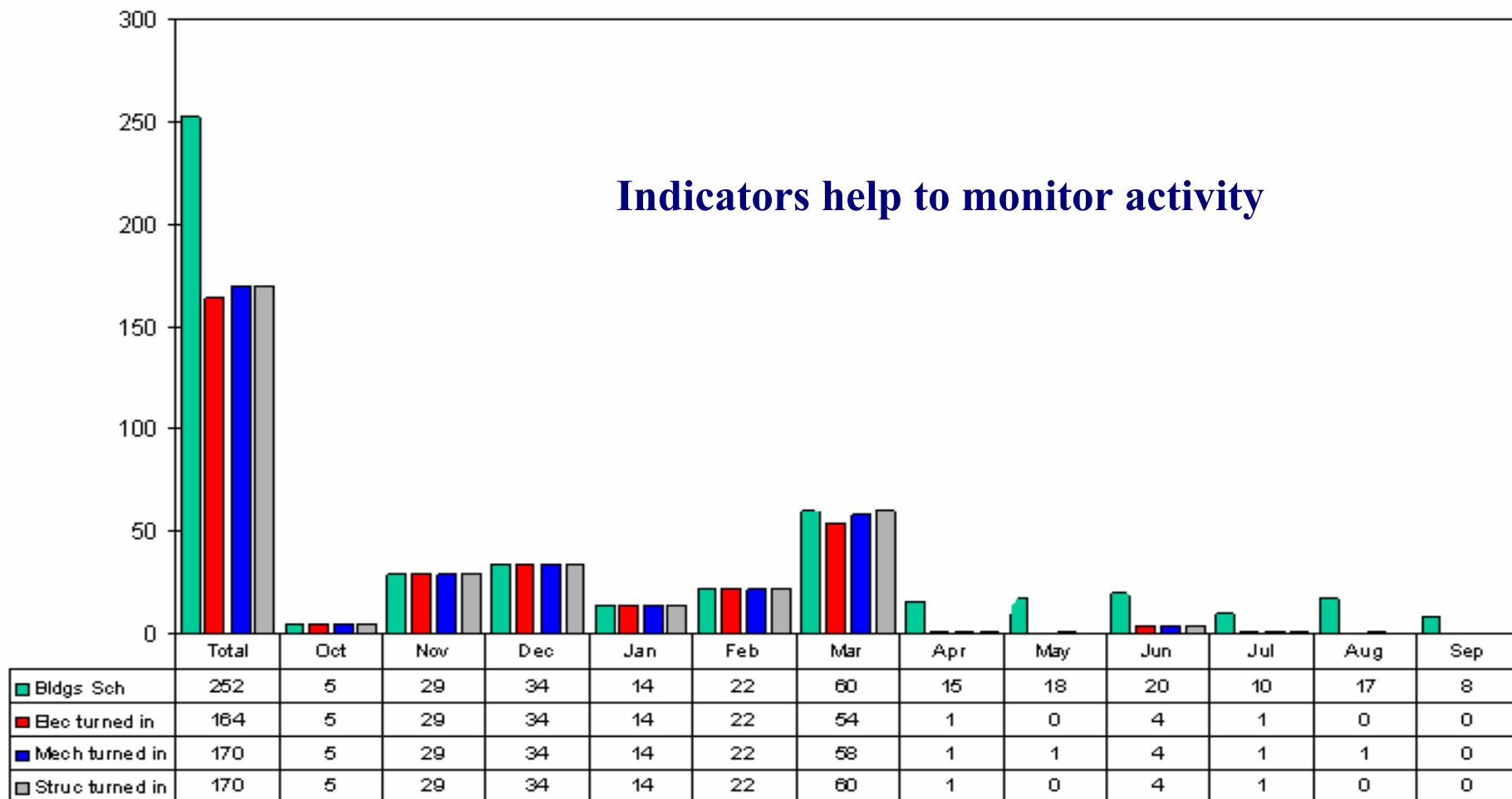
Comment: SEAMLESS FLOORING, 8' X 23' + 21' X 22'

I.U. #	Location Description	CAIS "Type" Description	CAS Inspection Info.	Opt. Year	Cond	Deferred
60566	INTERIOR , BAY 2	Composition flr, epoxy, with colored quartz chips, broadcast, minimum		1999	POOR	Y

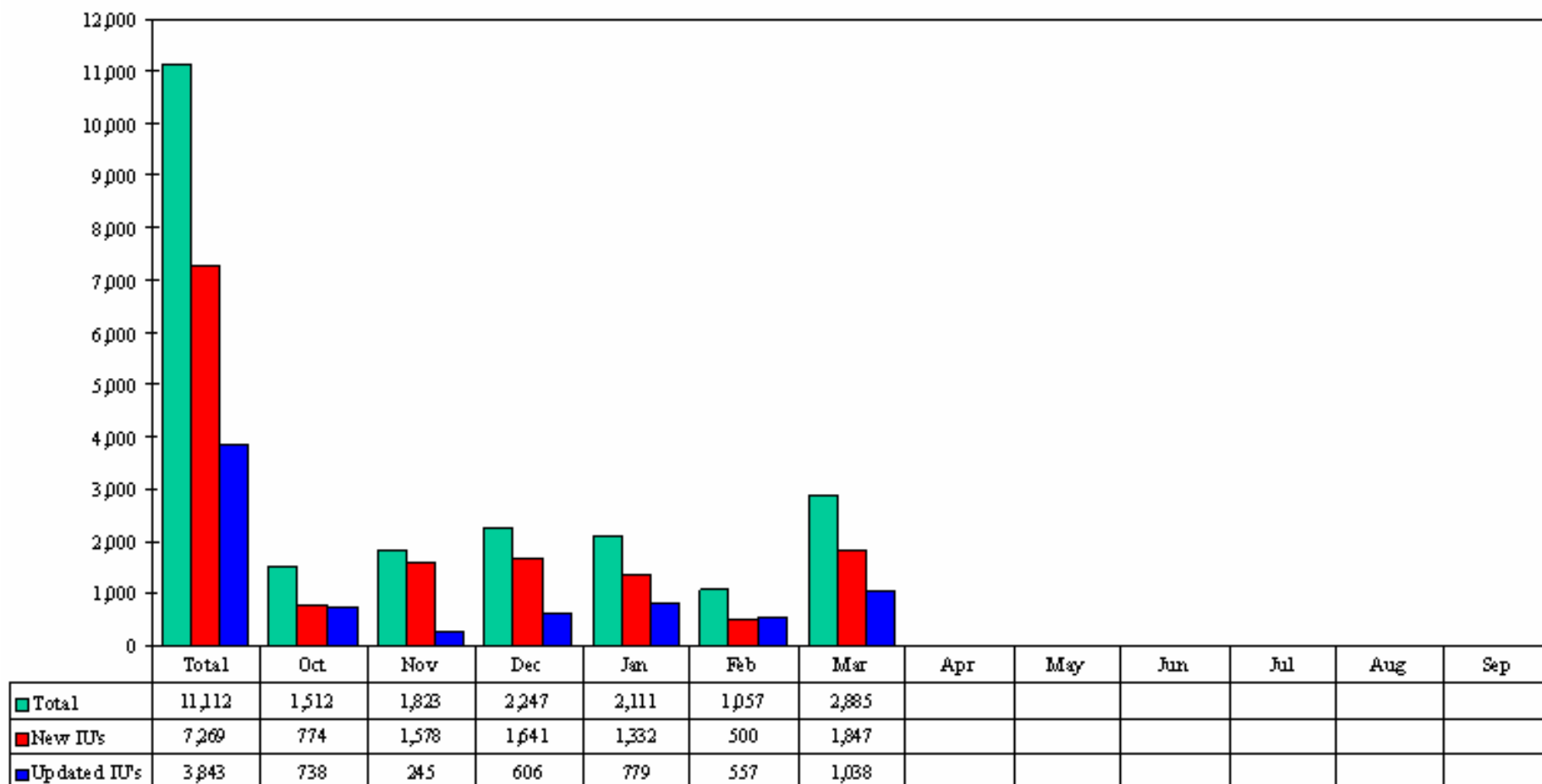
Yr. Installed 1942 Replacement Qty. 568 SQFT Imp. Code: ME Inspection Date 10/12/2004 Project/WO #: Eq. #

Comment: SEAMLESS FLOORING, 8' X 21' + 20' X 20'

FY06 BWXT CAS INSPECTIONS TURNED IN



FY06 NEW/UPDATED INSPECTION UNITS



Total Active IU's in Database 27,778

Menu driven queries support TYSP reporting and Deferred Maintenance (DM) project selection.

CAIS Data RTBF Program Reports Menu

The
Maintenance
Division would
like to
welcome you
to the CAIS
Data RTBF
Reports Menu!

Exit CAIS
RTBF
Program
Reports
Menu

FY03 Baseline Data

FY03 DM Completed Cost

FY03 DM Outstanding Cost

Project Development

RTBF Proj Dev DM by Bldg

TYCSP

RIK >500000

DM by FY Year by Importance by Bldg

DM by Condition by Importance by FY

DM all FY Years

New Growth, Life Cycle

New Growth, New Records

New Growth (Previously N, Now Y)





***Focused execution of
DM and CAS
Programs ensures
safe, efficient, and
reliable
facilities/equipment.***

